Author Index

Aartsma, T.J., see Schelvis, J.P.M. (1102) 229
Amesz, J., see Van de Meent, E.J. (1102) 371
Ando, T., Yamamoto, T., Kobayashi, N. and Munekata, E.
Synthesis of a highly luminescent terbium chelate and its application to actin (1102) 186
Andrew, C.R., see Zhang, B.-J. (1102) 245
Aumeier, G., see Volk, M. (1102) 253
Avital, S., see Gromet-Elhanan, Z. (1102) 379

Baard, R.L., see Van der Staay, G.W.M. (1102) 220
Baciou, L., see Hanson, D.K. (1102) 260
Barber, J., see Vass, I. (1102) 195
Bendall, D.S., see Modi, S. (1102) 85
Berden, J.A., see Hu, P.-S. (1102) 19
Breton, J., see Hiller, R.G. (1102) 360
Breton, J., see Hiller, R.G. (1102) 365
Brouwer, A., see Van der Staay, G.W.M. (1102) 220
Bruschi, M., see Mus-Veteau, I. (1102) 353

Chottard, G., see Mus-Veteau, I. (1102) 353
Christensen, R.L., see DeCoster, B. (1102) 107
Cook, K.M., see Vass, I. (1102) 195
Crielaard, W., see Leguijt, T. (1102) 177

Dalla Via, L., see Siliprandi, D. (1102) 62
Dau, H. and Sauer, K.
Electric field effect on the picosecond fluorescence of Photosystem II and its relation to the energetics and kinetics of primary charge separation (1102) 91
Deák, Z., see Vass, I. (1102) 195
Debus, R.J.
The manganese and calcium ions of photosynthetic oxygen evolution (1102) 269
DeCoster, B., Christensen, R.L., Gebhard, R., Lugtenburg, J., Farhoosh, R. and Frank, H.A.
Low-lying electronic states of carotenoids (1102) 107
Dekker, J.P., see Kwa, S.L.S. (1102) 202

Erkelens, C., see Van de Meent, E.J. (1102) 371

Farhoosh, R., see DeCoster, B. (1102) 107
Feick, R., see Volk, M. (1102) 253
Frank, H.A., see DeCoster, B. (1102) 107
Fridlyand, L.E.
Enzymatic control of 3-phosphoglycerate reduction in chloroplasts (1102) 115
Froncisz, W., see Korzeniewski, B. (1102) 67

Gebhard, R., see DeCoster, B. (1102) 107
Gromet-Elhanan, Z. and Avital, S.
Properties of the catalytic ($\alpha\beta$)-core complex of chloroplast CF_1-ATPase (1102) 379
Guerlesquin, F., see Mus-Veteau, I. (1102) 353

Haag, E., see Maciy, K. (1102) 76
Häberle, T., see Volk, M. (1102) 253
Hanson, D.K., Baciou, L., Tiede, D.M., Nance, S.L., Schiffer, M. and Sebban, P.
In bacterial reaction centers protons can diffuse to the secondary quinone by alternative pathways (1102) 260
Hansson, Ö., see Modi, S. (1102) 85
Hartog, A.F., see Hu, P.-S. (1102) 19
Hauska, G., see Nitschke, W. (1102) 266
Hellingwerf, K.J., see Leguijt, T. (1102) 177
Hiller, R.G. and Breton, J.
A linear dichroism study of photosynthetic pigment organisation in two fucoxanthin-containing algae (1102) 365
Hiller, R.G., Scaramuzzi, C.D. and Breton, J.
The organisation of photosynthetic pigments in a cryptophyte alga: A linear dichroism study (1102) 360
Hoff, A.J., see Schelvis, J.P.M. (1102) 229
Holmberg, E., see Hu, P.-S. (1102) 19
Höög, J.-O., see Hu, P.-S. (1102) 19
Horton, P., see Ruban, A.V. (1102) 30
Horton, P., see Ruban, A.V. (1102) 39
Hu, P.-S., Persson, B., Höög, J.-O., Jörnvall, H., Hartog, A.F., Berden, J.A., Holmberg, E. and Rydström, J.
Energy-linked transhydrogenase. Characterization of a nucleotide-binding sequence in nicotinamide nucleotide transhydrogenase from beef heart (1102) 19

Ichimura, T., see Satoh, K. (1102) 45
Inoue, K., see Van de Meent, E.J. (1102) 371

Joliot, A., see Joliot, P. (1102) 53
Joliot, P. and Joliot, A.
Electron transfer between Photosystem II and the cytochrome *b/f* complex: mechanistic and structural implications (1102) 53
Joliot, P., see Nitschke, W. (1102) 266
Jörnvall, H., see Hu, P.-S. (1102) 19

Katoh, S., see Satoh, K. (1102) 45
Keller, B.J., Marsman, D.S., Popp, J.A. and Thurman, R.G.
Several nongenotoxic carcinogens uncouple mitochondrial oxidative phosphorylation (1102) 237
Kobayashi, M., see Van de Meent, E.J. (1102) 371
Kobayashi, N., see Ando, T. (1102) 186
Koike, H., see Satoh, K. (1102) 45
Korzeniewski, B. and Froncisz, W.
Theoretical studies on the control of the oxidative phosphorylation system (1102) 67
Krieger, A., Moya, I. and Weis, E.
Energy-dependent quenching of chlorophyll *a* fluorescence: effect of pH on stationary fluorescence and picosecond-relaxation kinetics in thylakoid membranes and Photosystem II preparations (1102) 167
Kwa, S.L.S., Van Amerongen, H., Lin, S., Dekker, J.P., Van Grondelle, R. and Struve, W.S.
Ultrafast energy transfer in LHC-II trimers from the Chl *a/b* light-harvesting antenna of Photosystem II (1102) 202

Leguijt, T., Visschers, R.W., Crielaard, W., Van Grondelle, R. and Hellingwerf, K.J.

Low-temperature fluorescence and absorption spectroscopy of reaction center/antenna complexes from *Ectothiorhodospira mobilis*, *Rhodopseudomonas palustris* and *Rhodobacter sphaeroides* (1102) 177
Lexa, D., see Mus-Veteau, I. (1102) 353
Liebl, U., see Nitschke, W. (1102) 266
Lin, S., see Kwa, S.L.S. (1102) 202
Liu, B.-L., see Schelvis, J.P.M. (1102) 229
Lugtenburg, J., see DeCoster, B. (1102) 107
Lundberg, L.G., see Modi, S. (1102) 85

Maciy, K., Renger, G., Haag, E. and Voigt, J.
Light-induced degradation of PS II reaction centres analyzed by measurements of steady-state fluorescence spectra in D1/D2/cytochrome *b*-559 preparations from spinach (1102) 76
Marsman, D.S., see Keller, B.J. (1102) 237
Matthijs, H.C.P., see Van der Staay, G.W.M. (1102) 220
Mayes, S.R., see Vass, I. (1102) 195
Michel-Beyerle, M.-E., see Volk, M. (1102) 253
Modi, S., Nordling, M., Lundberg, L.G., Hansson, Ö. and Bendall, D.S.
Reactivity of cytochromes *c* and *f* with mutant forms of spinach plastocyanin (1102) 85
Monk, B.C., see Seto-Young, D. (1102) 213
Moya, I., see Krieger, A. (1102) 167
Müller, A., see Nitschke, W. (1102) 266
Munekata, E., see Ando, T. (1102) 186
Mus-Veteau, I., Chottard, G., Lexa, D., Guerlesquin, F. and Bruschi, M.
Cytochrome c_3-heteropolytungstate complex: a model for the interaction of the tetraheme cytochrome with its redox partners, ferredoxin and rubredoxin (1102) 353

Nance, S.L., see Hanson, D.K. (1102) 260
Nitschke, W., Joliot, P., Liebl, U., Rutherford, A.W., Hauska, G., Müller, A. and Riedel, A.
The pH dependence of the redox midpoint potential of the 2Fe2S cluster from cytochrome b_6f complex (the 'Rieske centre') (1102) 266
Nordling, M., see Modi, S. (1102) 85

Ogrodnik, A., see Volk, M. (1102) 253
Otte, S.C.M., see Van de Meent, E.J. (1102) 371

Pascal, A.A., see Ruban, A.V. (1102) 39
Perlin, D.S., see Seto-Young, D. (1102) 213
Persson, B., see Hu, P.-S. (1102) 19
Popp, J.A., see Keller, B.J. (1102) 237

Rees, D., see Ruban, A.V. (1102) 39
Renger, G., see Maciy, K. (1102) 76
Riedel, A., see Nitschke, W. (1102) 266
Rothery, R.A., see Weiner, J.H. (1102) 1
Ruban, A.V. and Horton, P.
Mechanism of ΔpH-dependent dissipation of absorbed excitation energy by photosynthetic membranes. I. Spectroscopic analysis of isolated light-harvesting complexes (1102) 30
Ruban, A.V., Rees, D., Pascal, A.A. and Horton, P.
Mechanism of ΔpH-dependent dissipation of absorbed excitation energy by photosynthetic membranes. II. The relationship between LHCII aggregation in vitro and qE in isolated thylakoids (1102) 39
Rutherford, A.W., see Nitschke, W. (1102) 266
Rydström, J., see Hu, P.-S. (1102) 19

Sambasivarao, D., see Weiner, J.H. (1102) 1
Satoh, K., Koike, H., Ichimura, T. and Katoh, S.
Binding affinities of benzoquinones to the Q_B site of Photosystem II in *Synechococcus* oxygen-evolving preparation (1102) 45
Sauer, K., see Dau, H. (1102) 91
Scaramuzzi, C.D., see Hiller, R.G. (1102) 360
Schelvis, J.P.M., Liu, B.-L., Aartsma, T.J. and Hoff, A.J.
The electron transfer rate from BPh_A^- to Q_A in reaction centers of *Rhodobacter sphaeroides* R-26: Influence of the H-subunit, the Q_A and Fe^{2+} cofactors, and the isoprene tail of Q_A (1102) 229
Schiffer, M., see Hanson, D.K. (1102) 260
Sebban, P., see Hanson, D.K. (1102) 260
Seto-Young, D., Monk, B.C. and Perlin, D.S.
Assessing hydrophobic regions of the plasma membrane H^+-ATPase from *Saccharomyces cerevisiae* (1102) 213
Siliprandi, D., Toninello, A. and Dalla Via, L.
Bidirectional transport of spermine in rat liver mitochondria (1102) 62
Smeitink, J., see Wyss, M. (1102) 119
Struve, W.S., see Kwa, S.L.S. (1102) 202
Sykes, A.G., see Zhang, B.-J. (1102) 245

Thurman, R.G., see Keller, B.J. (1102) 237
Tiede, D.M., see Hanson, D.K. (1102) 260
Tomkinson, N.P., see Zhang, B.-J. (1102) 245
Toninello, A., see Siliprandi, D. (1102) 62
Trieber, C.A., see Weiner, J.H. (1102) 1

Van Amerongen, H., see Kwa, S.L.S. (1102) 202
Van de Meent, E.J., Kobayashi, M., Erkelens, C., Van Veelen, P.A., Otte, S.C.M., Inoue, K., Watanabe, T. and Amesz, J.
The nature of the primary electron acceptor in green sulfur bacteria (1102) 371
Van der Staay, G.W.M., Brouwer, A., Baard, R.L., Van Mourik, F. and Matthijs, H.C.P.
Separation of Photosystems I and II from the oxychlorobacterium (prochlorophyte) *Prochlorothrix hollandica* and association of chlorophyll *b* binding antennae with Photosystem II (1102) 220
Van Grondelle, R., see Kwa, S.L.S. (1102) 202
Van Grondelle, R., see Leguijt, T. (1102) 177
Van Mourik, F., see Van der Staay, G.W.M. (1102) 220
Van Veelen, P.A., see Van de Meent, E.J. (1102) 371
Vass, I., Cook, K.M., Deák, Z., Mayes, S.R. and Barber, J.
Thermoluminescence and flash-oxygen characterization of the IC2 deletion mutant of *Synechocystis* sp. PCC 6803 lacking the Photosystem II 33 kDa protein (1102) 195
Visschers, R.W., see Leguijt, T. (1102) 177
Voigt, J., see Maciy, K. (1102) 76
Volk, M., Aumeier, G., Häberle, T., Ogrodnik, A., Feick, R. and Michel-Beyerle, M.-E.
Sensitive analysis of the occupancy of the quinone binding site at the active branch of photosynthetic reaction centers (1102) 253

Wallimann, T., see Wyss, M. (1102) 119
Watanabe, T., see Van de Meent, E.J. (1102) 371
Weiner, J.H., Rothery, R.A., Sambasivarao, D. and Trieber, C.A.
Molecular analysis of dimethylsulfoxide reductase: a complex iron-sulfur molybdoenzyme of *Escherichia coli* (1102) 1
Weis, E., see Krieger, A. (1102) 167
Wevers, R.A., see Wyss, M. (1102) 119
Wyss, M., Smeitink, J., Wevers, R.A. and Wallimann, T.
Mitochondrial creatine kinase: a key enzyme of aerobic energy metabolism (1102) 119

Yamamoto, T., see Ando, T. (1102) 186

Zhang, B.-J., Andrew, C.R., Tomkinson, N.P. and Sykes, A.G.
Reactivity patterns for redox reactions of monomer forms of myoglobin, hemocyanin and hemerythrin (1102) 245